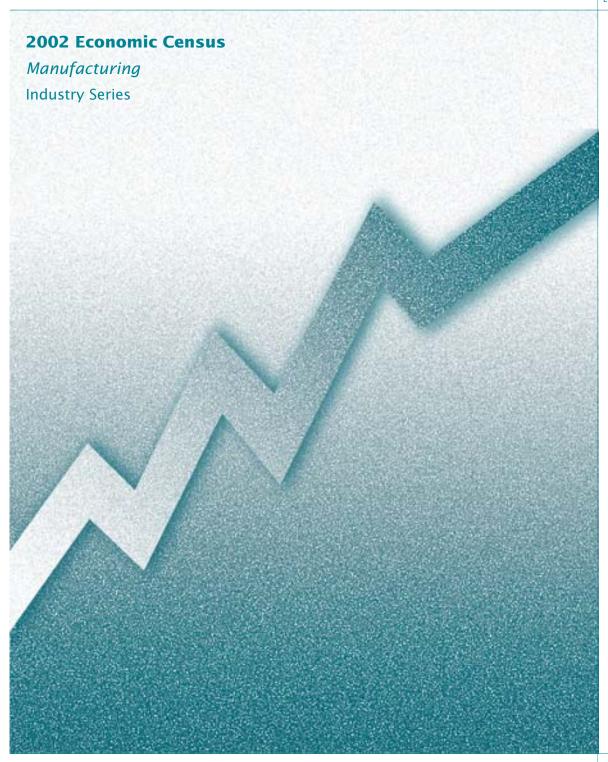
# Paperboard Mills: 2002

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

## Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All em	ployees	Pro	duction wor	kers		Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
322130, Paperboard mills	87 N N N N	199 N N N N 214	46 189 48 773 50 918 51 196 53 681 54 507	2 560 643 2 601 324 2 694 952 2 680 605 2 712 826 2 668 462	35 623 37 922 39 336 39 430 41 286 41 840	75 485 83 347 86 288 86 017 90 205 93 107	1 842 601 1 857 059 1 930 201 1 914 086 1 930 963 1 914 203	10 786 000 11 029 318 11 913 907 10 429 221 10 110 081 9 041 128	10 076 280 10 915 434 11 476 865 10 828 652 10 838 580 11 098 969	20 853 608 21 895 908 23 327 058 21 302 662 20 942 481 20 113 697	891 189 1 029 554 1 186 211 1 272 635 1 393 812 1 614 318

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

#### Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establi	ishments <sup>2</sup>	All em	ployees	Pr	oduction wor	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
322130, Paperboard mills												
United States. California Connecticut Georgia Illinois Louisiana New Jersey North Carolina Pennsylvania South Carolina Virginia	- - - - 8 2	199 15 5 14 4 6 7 7 8 6	189 14 4 14 6 5 6 8 6	46 189 1 293 531 5 523 426 3 172 468 1 074 849 849 2 524 3 646	2 560 643 69 411 26 795 306 752 17 482 184 581 23 300 53 514 42 833 114 213 216 950	35 623 977 410 4 279 357 2 493 372 829 674 1 968 2 693	75 485 1 974 898 8 788 715 5 338 868 1 800 1 499 4 300 5 767	1 842 601 47 400 18 595 221 532 14 011 137 079 16 801 38 203 31 791 80 587 150 544	10 786 000 284 953 123 459 1 410 801 43 670 1 060 870 45 880 231 222 154 315 473 640 977 468	10 076 280 348 687 116 167 984 159 32 983 1 026 958 58 994 190 453 157 75 408 815 775 436	20 853 608 632 572 240 625 2 395 988 76 393 2 086 122 104 683 419 477 312 132 885 957 1 752 916	891 189 45 442 5 080 74 653 1 523 92 545 8 605 38 517 17 701 22 862 59 427

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more. Includes establishments with payroll at any time during the year.

3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
322130, Paperboard mills	
Companies <sup>1</sup> number	87
All establishments <sup>2</sup>	199 10 75 114
All employees³       number.         Total compensation       \$1,000         Annual payroll       \$1,000.         Total fringe benefits       \$1,000.	46 189 3 316 274 2 560 643 755 631
Production workers, average for year	35 623 35 389 36 111 36 215 34 716
Production worker hours	75 485 1 842 601
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	10 076 280 7 626 117 134 558 1 300 247 814 250 201 108
Quantity of electricity purchased for heat and power	20 623 737 12 010 972
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000           Steep the contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	20 853 608 18 979 432 1 501 645 372 531 137 033 D
Primary products specialization ratio  Value of primary products shipments made in all industries \$1,000.  Value of primary products shipments made in this industry \$1,000.  Value of primary products shipments made in the rindustry \$1,000.	93 19 587 524 18 979 432 608 092
Coverage ratiopercent	97
Value added	10 786 000
Total inventories, beginning of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	1 409 312 475 032 57 821 876 459
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	1 456 977 487 513 54 012 915 452
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	29 788 017 891 189 80 708 810 481 13 479 41 345 755 657 868 040 29 811 166
Depreciation charges during year\$1,000	1 810 087
Total rental payments \$1,000 . Buildings and other structures \$1,000 . Machinery and equipment \$1,000 .	101 621 23 536 78 085
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup>	1 814 076 93 629 413 15 420 20 839 1 625 2 882 12 004 77 081 45 858 118 882 890 074

See footnotes at end of table.

# Table 3. **Detailed Statistics by Industry: 2002**—Con.

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
3221301, Paperboard mills - integrated producer	
Companies <sup>1</sup> number	18
All establishments <sup>2</sup> number .	46
All establishments <sup>2</sup> number. Establishments with 1 to 19 employeesnumber. Establishments with 20 to 99 employeesnumber. Establishments with 100 employees or morenumber.	- - 46
All employees <sup>3</sup> number	27 706
Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	2 091 716 1 596 086 495 630
Production workers, average for year	21 217 20 980
Production workers on May 12	21 745 21 651 20 480
Production worker hours	44 595 1 149 134
Total cost of materials \$1,000 .  Materials, parts, containers, packaging, etc., used \$1,000 .	6 493 513 4 987 521
Resales \$1,000 . Purchased fuels \$1,000 .	D 801 040
Purchased electricity \$1,000 . Contract work \$1,000 .	504 506 D
Quantity of electricity purchased for heat and power	13 559 052
	10 122 586
Total value of shipments \$1,000 .  Primary products value of shipments \$1,000 .  Secondary products value of shipments \$1,000 .  Total miscellaneous receipts \$1,000 .	13 422 936 X
Secondary products value of snipments \$1,000.  Total miscellaneous receipts \$1,000.	X X X D X X
Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	D X
Primary products specialization ratio percent.  Value of primary products shipments made in all industries \$1,000.  Value of primary products shipments made in this industry \$1,000.  Value of primary products shipments made in other industries \$1,000.	X X X X
Coverage ratiopercent	X
Value added\$1,000	6 925 937
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000.	1 069 898 371 848
Work-in-process inventories \$1,000.  Materials and supplies inventories \$1,000.	53 559 644 491
Total inventories, end of year	1 075 941 377 583
Finished goods inventories \$1,000 . Work-in-process inventories \$1,000 . Materials and supplies inventories \$1,000 .	44 338 654 020
Cross value of depreciable secrets (aggregation secrets) at heginning of year	
Total capital expenditures (new and used)	X X
Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000.	X X
Total capital expenditures (new and used) \$1,000.  Buildings and other structures (new and used) \$1,000.  Machinery and equipment (new and used) \$1,000.  Automobiles, trucks, etc., for highway use. \$1,000.  Computers and peripheral data processing equipment \$1,000.  All other expenditures for machinery and equipment \$1,000.  Total retirements \$1,000.	X
Total retirements \$1,000 . Gross value of depreciable assets at end of year . \$1,000 .	X X X X X X X X
Depreciation charges during year\$1,000	X
Total rental payments\$1,000.	×××
Buildings and other structures \$1,000.  Machinery and equipment \$1,000.	X X
Total other expenses <sup>4</sup> \$1,000 . Response coverage ratio <sup>5</sup> percent. Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000 . Communications services <sup>4</sup> \$1,000	X
Repair and maintenance services of buildings and/or machinery <sup>4</sup>	X X X X X X X X X X X X X X X X X X X
Legal services <sup>4</sup> \$1,000.	Ŷ
Communications services*         \$1,000           Legal services4         \$1,000           Accounting, auditing, and bookkeeping services4         \$1,000           Advertising and promotional services4         \$1,000           Expensed computer hardware and supplies and purchased computer services4         \$1,000           Refuse removal (including hazardous waste) services4         \$1,000           Management consulting and administrative services4         \$1,000           Taxes and license fees4         \$1,000           All other expenses4         \$1,000	X X
Expensed computer naroware and supplies and purchased computer services*	X X
Management consulting and administrative services*\$1,000  Taxes and license fees4\$1,000	X
All other expenses <sup>4</sup> \$1,000.	X

See footnotes at end of table.

# Table 3. Detailed Statistics by Industry: 2002—Con.

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
3221302, Paperboard mills - nonintegrated producer	
Companies <sup>1</sup>	69
All establishments <sup>2</sup>	153 10 75 68
All employees³       number         Total compensation       \$1,000         Annual payroll       \$1,000         Total fringe benefits       \$1,000	18 483 1 224 558 964 557 260 001
Production workers, average for year	14 406 14 409 14 366 14 564 14 236
Production worker hours	30 890 693 467
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	3 582 767 2 638 596 D 499 207 309 744 D
Quantity of electricity purchased for heat and power	7 064 685 1 888 386
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	7 430 672 X X X X X D X
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	X X X
Coverage ratiopercent .	X
Value added \$1,000	3 860 063
Total inventories, beginning of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	339 414 103 184 4 262 231 968
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	381 036 109 930 9 674 261 432
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	x x x x x x x x
Depreciation charges during year	X
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	X X X
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup> percent.  Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000.  Communications services <sup>4</sup> \$1,000.  Legal services <sup>4</sup> \$1,000.  Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000.  Advertising and promotional services <sup>4</sup> \$1,000.  Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000.  Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000.  Management consulting and administrative services <sup>4</sup> \$1,000.  Taxes and license fees <sup>4</sup> \$1,000.  All other expenses <sup>4</sup> \$1,000.	x x x x x x x x x

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	Pi	roduction worke	ers		Total	Total	Total
Employment size class	E¹	All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
322130, Paperboard mills											
All establishments	-	199	46 189	2 560 643	35 623	75 485	1 842 601	10 786 000	10 076 280	20 853 608	891 189
1 to 4 employees	6	4	a	D	D D	D	D D	D	D	D	D D
5 to 9 employees	9 2	5	60	2 517	47	93	1 859	3 723	3 870	8 165	586
20 to 49 employees	ī	19	639	26 845	499	1 044	19 105	82 332	96 423	179 428	6 718
50 to 99 employees	-	56	4 226	224 024	3 268	6 912	159 787	963 540	780 595	1 743 001	78 528
100 to 249 employees	_	61 23	9 372 8 521	470 349 515 647	7 285 6 386	15 947 13 797	333 306 365 340	1 753 195 2 345 438	1 655 309 2 320 830	3 396 728 4 648 179	147 426 208 970
500 to 999 employees	-	25	16 533	982 891	12 941	27 100	726 725	4 529 799	3 894 660	8 414 870	305 627
1,000 to 2,499 employees	-	5	6 820	337 696	5 182	10 570	235 948	1 105 842	1 322 682	2 459 228	143 085
2,500 employees or more	-	_	_	_	_	_	_	-	-	_	-
Administrative records <sup>4</sup>	-	_	-	_	_	_	_	_	_	_	_

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or		All em	ployees	Pr	oduction work	ers		Total	Total	Total
product class code	Industry or primary product class	All estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
322130	Paperboard mills	199	46 189	2 560 643	35 623	75 485	1 842 601	10 786 000	10 076 280	20 853 608	891 189
3221301	Unbleached kraft packaging and industrial converting paperboard (80 percent or more virgin										
3221303	woodpulp)	39	17 902	1 048 862	13 690	29 014	749 130	4 965 565	4 308 013	9 250 950	387 864
3221305	or more virgin bleached woodpulp). Semichemical paperboard, including corrugating medium (75 percent or	19	11 265	618 067	8 827	18 286	459 009	2 372 353	2 461 054	4 859 294	230 239
3221307 3221309	more virgin woodpulp)	7 123	1 774 15 025	94 572 791 051	1 429 11 517	2 702 25 168	71 230 558 761	410 739 3 016 365	283 350 3 011 521	692 413 6 018 518	28 863 243 270
JZZ 1309	binders' board and shoe board	3	134	4 893	94	208	2 442	13 679	7 950	20 889	376

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

#### **Products Statistics: 2002 and 1997** Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Duadwat		Number of companies with		Product s	hipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
322130	Paperboard mills	N N	X	X	19 587 524 18 681 404
3221301	Unbleached kraft packaging and industrial converting paperboard (80 percent or more virgin woodpulp)	N	×	×	7 993 971
32213011	Unbleached kraft linerboard	N N	X	X	7 443 912 6 688 596
3221301111	1997	N 17	X	P16 839.7	6 195 050 6 688 596
32213012	Other unbleached kraft packaging and industrial converting paperboard, including tube, can, and drum paperboard, corrugating medium, folding carton-type board, etc	22 N	X X	18 560.3 X	6 195 050 1 304 751
3221301221	Other unbleached kraft packaging and industrial converting paperboard, including tube, can, and drum paperboard.	N	Х	x s	1 248 862
3221301Y	corrugating medium, folding carton-type board, etc	14 11 N	X X	2 962.4 X	1 248 862 624
3221301YWV	1997	Ň	â	x̂	- 624
32213011444	Unbleached kraft packaging and industrial converting paperboard (80 percent or more virgin woodpulp), nsk	N N	X	X X	624 —
3221303	Bleached packaging and industrial converting paperboard (80 percent or more virgin bleached woodpulp)	N N	×	X X	4 154 755 3 971 630
32213031	Bleached folding carton-type paperboard	N N	X	X X	1 599 798 1 848 375
3221303111	Bleached folding carton-type paperboard	9	X	2 423.5 2 585.4	1 599 798 1 848 375
32213032	Bleached milk carton board	N N	X	X X	820 967 923 553
3221303221	Bleached milk carton board	6	X	1 192.4 1 166.1	820 967 923 553
32213033	Other solid bleached paperboard, including linerboard, heavyweight cup and round nested food container board, plate, dish, and tray stock, and paperboard for moist, liquid, and oily foods	N	X	x 100.1	1 661 861
3221303331	1997. Bleached linerboard	N 8	X	X 451.1	1 199 702 277 548
3221303341	Bleached heavyweight cup and round nested food container paperboard. 1,000 s tons, ,2002.	9	x x	275.9 P648.4	193 337 423 205
3221303351	1997 Bleached plate, dish, and tray paperboard stock	10 9	X	856.8 9397.3	564 273 214 073
3221303361	Other solid bleached paperboard, including paperboard for moist, liquid, and oily foods	9	X X	362.5 S	211 968 747 035
3221303Y	Bleached packaging and industrial converting paperboard (80 percent or more virgin bleached woodpulp), nsk	6 N	×	376.7 X	230 124 72 129
3221303YWV	Bleached packaging and industrial converting paperboard (80 percent or more virgin bleached woodpulp), nsk	N N N	X X X	X X X	72 129
3221305	Semichemical paperboard, including corrugating medium (75 percent or more virgin woodpulp)	N	×	×	1 049 286
32213051	Semichemical paperboard, including corrugating medium (75 percent or more virgin woodpulp)	N N	X X	X X X	815 423 1 049 286
3221305100	Semichemical paperboard, including corrugating medium	N	X	×	815 423
	(75 percent or more virgin woodpulp)	9	X X	<sup>q</sup> 3 146.9 <sup>p</sup> 3 475.7	1 049 286 815 423
3221307	Recycled paperboard	N N	X	X	6 338 853 D
32213071	Recycled corrugating medium	N N	X	X	1 571 754 1 405 449
3221307111	Recycled corrugating medium	27 34	X	P4 557.4 5 722.1	1 571 754 1 405 449
32213072	Recycled linerboard and container chip and filler board	N N	X	X	1 838 226 1 854 183
3221307221	Recycled linerboard	19 25	X	4 581.6 5 433.3	1 798 521 1 800 003
3221307231	Recycled container chip and filler board	5 5 N	X	P98.4   S	39 705 54 180
32213073	Recycled clay-coated folding carton board	N	X	X	1 016 266 1 046 000
3221307341 32213074	Recycled clay-coated folding carton board	8 11 N	X X	<sup>9</sup> 2 266.3 2 219.4	1 016 266 1 046 000 482 746
3221307451	1997 . Recycled unlined folding carton chipboard	N N 10	X	X X S	478 890 251 635
3221307451	Recycled lined folding carton board, including kraft and	15	x	788.5	292 992
3221307461	white	9 13	×	437.8 434.6	231 111 185 898
	drum stock, gypsum linerboard, panelboard and wallboard stock, and other special combination packaging and converting paperboard	Ņ	X	X X	1 304 760
3221307571	1997	N 6	X	S	1 567 273 115 207
3221307575	1997	6 8	X	175.5 91 214.2	77 582 483 446
3221307581	1997	14 8	X	1 754.4   914.4	699 169 393 432

See footnotes at end of table.

#### Table 6a. Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product	shipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
322130 3221307 32213075	Paperboard mills—Con. Recycled paperboard—Con. Other recycled paperboard, including setup, tube, can, and drum stock, gypsum linerboard, panelboard and wallboard stock, and other special combination packaging and converting paperboard—Con.				
3221307581	Recycled gypsum linerboard—Con.	6	Х	870.5	390 640
3221307591	Other recycled paperboard, including panelboard and wallboard stock and other special combination packaging and industrial converting paperboard	16 19	X	S 1 030.1	312 675 399 882
3221307Y	Recycled paperboard, nsk	N N	X	X	125 101
3221307YWV	1997 1997 2002 1997 1997 1997 1997 2002 1997	N N N	X X X	X X X	D 125 101 D
3221309	Wet machine board, including binders' board and shoe board2002	N	X	x	38 709
32213091	1997 Wet machine board, including binders' board and shoe board	N N N	X X X	X X X	86 373 38 709 86 373
3221309100	Wet machine board, including binders' board and shoe board		v	750.5	38 709
	1997	7	X	<sup>9</sup> 58.5 S	86 373
322130W	Paperboard mills, nsk, total	N	X	×	11 950
322130WY		N N N	X X X	X X X	11 950
322130WYWW	Paperboard mills, nsk, for nonadministrative-record				
	establishments	N N	X	X X	11 950 D
322130WYWY	Paperboard mills, nsk, for administrative-record establishments	N N	X	×	_ _ _

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3221301	Unbleached kraft packaging and industrial converting paperboard (80 percent or more virgin woodpulp)	
	United States. 2002.  Georgia 1997.  Louisiana 2002.  1997.  1997.	7 993 971 7 443 912 1 180 925 1 199 083 1 182 529 1 089 855
3221303	Bleached packaging and industrial converting paperboard (80 percent or more virgin bleached woodpulp)	
	United States	4 154 755 3 971 630
3221305	Semichemical paperboard, including corrugating medium (75 percent or more virgin woodpulp)	
	United States. 2002. 1997	1 049 286 815 423
3221307	Recycled paperboard	
	United States	6 338 853 D
	California	595 186 640 538
	Connecticut	235 603 238 606
	Georgia	343 513 252 501
	Illinois	69 840 142 879
	New Jersey	102 886 152 882
	North Carolina         2002           Pennsylvania         1997           2002         2002	180 591 56 924
	2002   1997	307 042 276 492 177 084
	Virginia 2002. 1997	177 004 186 187 277 183 518 020
3221309	Wet machine board, including binders' board and shoe board	
	United States	38 709 86 373

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
322130	Paperboard mills		
00900001	Total materials	X	7 626 117
11331009	Southern pine pulpwood bolts and logs	X 13 491.8	8 795 656 830 449
11331023	Other softwood pulpwood bolts and logs, including Douglas fir and Jack pine	16 584.7 1 596.9 D	1 409 503 108 878 D
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	11 991.7 P13 302.1	878 382 1 031 638
11331011	Southern mixed hardwood pulpwood bolts and logs	4 921.4 4 745.9	323 137 363 157
11331025	Other hardwood pulpwood bolts and logs	884.9 P1 455.7	51 383 97 329
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	4 008.2 7 364.0	326 281 401 339
32518103	Chlorine (100 percent Cl basis)	55.2 130.9	7 162 29 133
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	578.4 894.3	95 021 142 395
32518823	Sodium chlorate (100 percent NaClO <sub>3</sub> )	226.0 254.8	77 716 89 849
32510007	Other sodium compounds	X X X	27 173 39 502
32518813	Aluminum sulfate (17 percent Al <sub>2</sub> O <sub>3</sub> ) 1,000 s tons. 2002. 1997.	214.1 292.1	23 481 29 152
32599811	Rosin sizing mil lb (dry basis)2002.	P143.0	67 183
32741003	Lime	P143.7 307.4	75 234 22 014
21232400	Kaolin and ball clay	510.6 9564.0 526.1	33 374 88 673 70 909
31122113	Starch mil lb2002	630.7	110 785
32521131	1997   Synthetic resins mil lb2002	879.7 304.3	165 875 125 206
32513103	Titanium dioxide, composite and pure (100 percent TiO <sub>2</sub> ) mil b2002 mil b2002 1997	298.0 91.0 85.2	145 941 76 449 89 338
32518829	Calcium carbonate, precipitated (100 percent CaCO <sub>2</sub> )	327.3	46 628 27 572
32500009	All other chemicals (including organic)	<sup>q</sup> 201.7 X	608 442
32210029	Woodpulp produced at affiliated or associated mills at other locations	X 46.3 156.9	541 253 15 393 72 515
32210031	Woodpulp, purchased (market)	162.2	73 645
00190006	Mixed wastepaper, excluding plant's own broke paper	222.5 S	101 614 154 297
00190007	Mechanical news wastepaper, excluding plant's own broke paper	P1 951.9 P757.9 1 269.6	71 920 60 477 50 023
00190072	Other mechanical wastepaper, excluding plant's own broke paper	443.6	65 902
00190073	Corrugated wastepaper (including kraft), excluding plant's own broke paper	821.4 13 380.3	51 526 1 253 858
00190009	High grade pulp substitutes wastepaper, excluding plant's own broke paper	16 088.0 211.7 662.9	1 725 959 36 443 110 750
00190010	High grade deinking wastepaper, excluding plant's own broke paper	207.1 122.1	58 900 17 710
00190015	Other fibrous materials, including rags, straw, and bagasse	D D	17 710 D D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	D D
31323001	Nonwoven fabrics mil sq yd2002.	D	D
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.)	D X	30 055 40 769
32552003	Glues and adhesives	X 94.2 S	40 769 1 753 977
32221001	Paperboard containers, boxes, and corrugated paperboard	×	127 173 91 427
00970099	All other materials and components, parts, containers, and supplies		1 192 284 1 262 157 638 349
00971000	Materials, ingredients, containers, and supplies, nsk .202	X X X X	638 349 307 734

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.